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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	· CONFIRMATION NO.
10/629,857	07/30/2003	Yasunori Nakamura	030918	6154
23850 75	7590 06/23/2005		EXAMINER	
ARMSTRONG, KRATZ, QUINTOS, HANSON & BROOKS, LLP			CHEUNG, WILLIAM K	
1725 K STREE	T, NW			
SUITE 1000			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20006			1713	
			DATE MAILED: 06/23/200	15

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
Office Action Summany	10/629,857	NAKAMURA ET AL.			
Office Action Summary	Examiner	Art Unit			
The MAN INC DATE of this communication and	William K. Cheung	1713			
The MAILING DATE of this communication apprend for Reply	ears on the cover sneet with	i the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	within the statutory minimum of thirty (ill apply and will expire SIX (6) MONTh cause the application to become ABAI	ly be timely filed (30) days will be considered timely. IS from the mailing date of this communication. NDONED (35 U.S.C. § 133).			
Status		·			
1)⊠ Responsive to communication(s) filed on 06 Ju	ne 2005.				
	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ☐ Claim(s) 1,3,5-8 and 10-12 is/are pending in the 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,3,5-8 and 10-12 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the confection of the	epted or b) objected to by drawing(s) be held in abeyance on is required if the drawing(s	e. See 37 CFR 1.85(a).) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applity documents have been re (PCT Rule 17.2(a)).	plication No eceived in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/	mmary (PTO-413) Mail Date ormal Patent Application (PTO-152)			

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

DETAILED ACTION

Request for Continued Examination

- The request filed on June 6, 2005 for a Request for Continued Examination
 (RCE) under 37 CFR 1.53(d) based on parent Application No. 10/629,857 is acceptable
 and a RCE has been established. An action on the RCE follows.
- 2. In view of amendment filed April 29, 2005, claim 2 has been cancelled. Claims 1, 3, 5-8, 10-12 are pending.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. Claims 1, 3, 5-8, 10-12 stand rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Chatterjee (US 5,922,471) for the reasons adequately set forth from paragraph 4 of non-final office action issued September 23, 2004.

The invention of claims 1, 3, 5-8, 10-12 relates to a **polypropylene-based resin composition** for metallized films, comprising:

(A) **100 parts by weight of a propylene random copolymer** produced in the presence of a metallocene catalyst, which as the properties (a-1) to (a-5):

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- (a-1) propylene unit present at 88 to 99.5% by moi, and ethylene and/or butene structural unit present at 0.5 to 12% by moi,
- (a-2) melt flow rate (MFR_A) of 1 to 30g/10 minutes,
- (a-3) **polydispersity index** (PI), determined by the melt viscoelasticity analysis, of **2.4 to 4**,
- (a-4) **solubles** contained at 20°C or lower, determined by cross fractionation chromatography (CFC), at 1.5% by weight or less, and the solubles having a weight-average molecular weight of 0.1x10⁴ to 6.0x10⁴, and
- (a-5) **solubles** contained at 40°C or lower, determined by cross fractionation chromatography (CFC), at **4.0%** by weight or less, and the solubles having a weight-average molecular weight of **0.1x10**⁴ to **8.0x10**⁴,
- (a-6) melting point (Tp), determined by differential scanning calorimetry (DSC), of 115 to 150 °C,
- (B) **0.0 1 to 6 parts** by weight of a **polyethylene** resin having a density of **0.945 to 0.980g/cm³**, **melt index (MI_B) of 1 to 1000g/10 minutes**, and ratio of
 MI_B to MFR_A, i.e., (MI_B/MFR_A) ratio, of **0.7 to 1000**,
- (C) **0.01 to 0.7 parts** by weight of an **antiblocking agent** having an average particle size of **1.0 to 5.0µm** and pore volume of **1.7mL/g or less**,
- (D) 0.01 to 0.5 parts by weight of an antioxidant having a molecular weight of 500 or more, and
- (E) 0.005 to 0.5 parts by weight of a hydrotalcite-based compound.

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Chatterjee (abstract) discloses polypropylene random copolymer resins for metallized film applications. Further, Chatterjee (col. 2, line 21 to col. 4, line 55) clearly teach using applicants' claimed components (antioxidant, hydrotalcite, HDPE, antiblocking agent) (col. 4, Table I and II) in specific ranges. Although Chatterjee does not provide a working example to demonstrate applicants' claimed invention in a single embodiment, however, it would not be difficult to one of ordinary skill in art to obtain the invention of claims 1, 3, 5-8, 10-12 after reading the specific component teachings (antioxidant, hydrotalcite, HDPE, antiblocking agent) in Chatterjee.

Regarding the claimed "polyethylene resin having a density of 0.945 to 0.980g/cm³, melt index (MI_B) of 1 to 1000g/10 minutes, and ratio of MI_B to MFR_A, i.e., (MI_B/MFR_A) ratio, of 0.7 to 1000", applicants must recognize that these recited properties are typical properties of high density polyethylene as recognized by one of ordinary skilled in the polyolefin industries.

In view of the substantially identical composition and intended used disclosed in Chatterjee and the composition and intended use being claimed, the examiner has a reasonable basis to believe that the claimed "solubles contained at 20 °C or lower, determined by cross fractionation chromatography (CFC), at 1.5% by weight or less, and the solubles having a weight-average molecular weight of 0.1x10⁴ to 6.0x10⁴, and (a-5) solubles contained at 40°C or lower, determined by cross fractionation chromatography (CFC), at 4.0% by weight or less, the solubles having a weight-average

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molecular weight of 0.1x10⁴ to 8.0x10⁴", DSC melting point characteristics, the mathematical relationship of claim 6 are inherently possessed in Chatterjee. Since the PTO does not have proper means to conduct experiments, the burden of proof is now shifted to applicants to show otherwise. In re Best, 562 F.2d 1252, 195 USPQ 430 (CCPA 1977); In re Fitzgerald, 205 USPQ 594 (CCPA 1980).

Regarding the recited "metallocene" limitation in claim 1, applicants must recognize that "[E]ven though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 777F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985)

Applicants' arguments filed June 6, 2005 have been fully considered, but they are not found persuasive. Regarding applicants' argument that the process of Chatterjee would only produce a random copolymer, however, applicants fail to provide support for such argument. Regarding applicants' argument that the argued comparative examples 9-12 are prepared with Ziegler-Natta type catalyst, however, applicants' specification fail to provide support for such argument.

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Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to William K Cheung whose telephone number is (571) 272-1097. The examiner can normally be reached on Monday-Friday 9:00AM to 2:00PM; 4:00PM to 8:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David WU can be reached on (571) 272-1114. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

William K. Cheung

Primary Examiner

June 19, 2005